

# Converting Colors

$Y_{xy}(37.4983, 0.5054, 0.3755)$

Have a look what the booklet for  
Yxy(37.4983, 0.5054, 0.3755)  
contains.

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# Color

**Yxy(37.5250, 0.5050, 0.3752)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF814F
RGB	255, 129, 79
RGB Percent	100%, 51%, 31%
CMY	0.0000, 0.4941, 0.6901
CMYK	0.00, 0.49, 0.69, 0.00
HSL	17°, 100%, 65%
HSV	17°, 69%, 100%
XYZ	50.5067, 37.5250, 11.9816
YIQ	160.9740, 91.1460, 11.1620

# Conversions

## Conversions Part 2

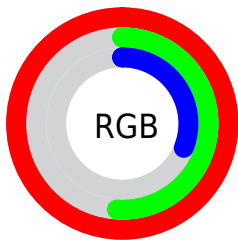
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 149, 79
Decimal	16744783
CIE <sub>Lab</sub>	67.67, 44.34, 48.42
CIE <sub>LCh</sub>	68, 65.655, 47.514
Yxy	37.5250, 0.5050, 0.3752
Android (android.graphics.Color)	4294934863 (0xFFFF814F)
YUV	160.9740, -40.4132, 82.4608
Hunter-Lab	61.2577, 39.9718, 31.2836

# Details

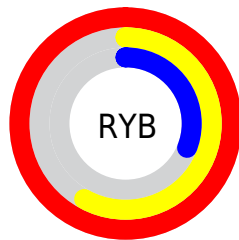
The Yxy color **37.5250, 0.5050, 0.3752** is a light color, and the websafe version is hex **FF9966**. The color can be described as light washed orange. A complement of this color would be **52.5576, 0.2176, 0.2652**, and the grayscale version is **35.7863, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.1527, 0.4205, 0.3851**, and **16.4691, 0.5564, 0.3731** is the 20% darker color. If you saturate the color by 10%, you get **32.8332, 0.5425, 0.3746**, and if you desaturate by 10%, it is **43.2163, 0.4669, 0.3720**.

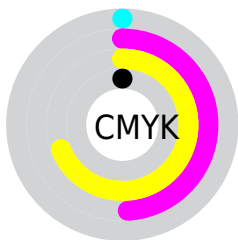
# Distribution



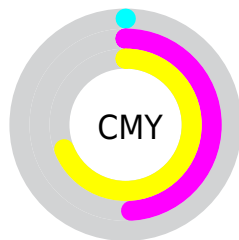
- Red (100%)
- Green (51%)
- Blue (31%)



- Red (100%)
- Yellow (58%)
- Blue (31%)



- Cyan (0%)
- Magenta (49%)
- Yellow (69%)
- Black (0%)




- Cyan (0%)
- Magenta (49%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.5250, 0.5050, 0.3752 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 37.5250, 0.5050, 0.3752 by changing the saturation by 10% instead.





 37.5250, 0.5050,  
0.3752


 37.5250, 0.5050,  
0.3752


335.5779, 0.4076,  
0.3609

 25.6142, 0.5279,  
0.3753


 71.3795, 0.4703,  
0.3725


 16.5353, 0.5559,  
0.3732


 94.0920, 0.4570,  
0.3707


 9.9037, 0.5900,  
0.3668


 121.1739, 0.4456,  
0.3689

 5.3352, 0.6419,  
0.3581

 153.0096, 0.4359,  
0.3671

 2.4452, 0.6790,  
0.3210

 189.9835, 0.4274,  
0.3654

 0.8490, 0.7374,  
0.2626

232.4799, 0.4200,

 0.0000, 1.0000,

0.3638

0.0000

280.8832, 0.4134,  
0.3623

■ 0.0000, 0.0000,  
0.0000

■ 37.5250, 0.5050,  
0.3752

■ 37.5250, 0.5050,  
0.3752

■ 32.8332, 0.5425,  
0.3746

■ 43.2163, 0.4669,  
0.3720

■ 29.0813, 0.5757,  
0.3694

■ 49.9674, 0.4310,  
0.3662


■ 26.1924, 0.6011,  
0.3601

■ 57.8296, 0.3990,  
0.3589

■ 25.9486, 0.6033,  
0.3592

■ 66.8515, 0.3712,  
0.3510

■ 77.0787, 0.3477,  
0.3431

 88.5545, 0.3278,  
0.3355

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



37.5250, 0.4747, 0.3090



37.5250, 0.5050, 0.3752



37.5250, 0.4735, 0.4437

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



37.5250, 0.5050, 0.3752



37.5250, 0.2271, 0.4298



37.5250, 0.2094, 0.1877

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



37.5250, 0.5050, 0.3752



52.5576, 0.2176, 0.2652

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



37.5250, 0.1645, 0.1952



37.5250, 0.5050, 0.3752



37.5250, 0.1710, 0.3188

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



37.5250, 0.5050, 0.3752



37.5250, 0.3117, 0.5054



37.5250, 0.1514, 0.2361



37.5250, 0.2877, 0.2075



# Rectangle

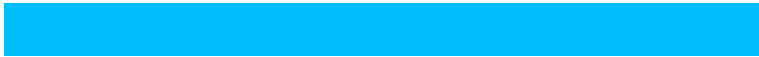
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



37.5250, 0.5050, 0.3752



37.5250, 0.4284, 0.4845



37.5250, 0.1514, 0.2361



37.5250, 0.1907, 0.1870

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



37.5239, 0.5050, 0.3752



74.9474, 0.3520, 0.3446



31.2693, 0.3738, 0.2123



15.4256, 0.3584, 0.3468



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



37.5239, 0.5050, 0.3752



31.2282, 0.5565, 0.3731



71.3840, 0.4310, 0.4563



18.8269, 0.3287, 0.3358



13.7762, 0.6004, 0.3615



1.5176, 0.5784, 0.3790

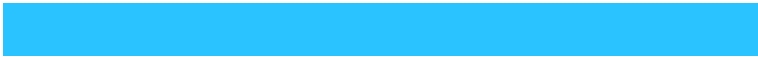


# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



52.5576, 0.2176, 0.2652



46.7245, 0.2063, 0.2500



21.6403, 0.1886, 0.1476



19.5583, 0.2980, 0.3221



21.6465, 0.1982, 0.2336



2.2938, 0.2016, 0.2458



# Previews

## White Background



This preview shows how the Yxy color 37.5250, 0.5050, 0.3752 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

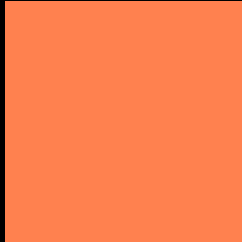
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.5250, 0.5050, 0.3752 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

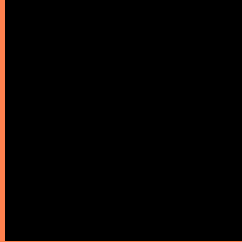
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 37.5250, 0.5050, 0.3752**

## Background



This preview shows how black text looks on a background with the Yxy color 37.5250, 0.5050, 0.3752.



This preview shows how white text looks on a background with the Yxy color 37.5250, 0.5050, 0.3752.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

37.5250, 0.5050, 0.3752

### Protanopia

37.6107, 0.3955, 0.4295

### Deuteranopia

37.5741, 0.4391, 0.4292



## Tritanopia

37.6207, 0.4510, 0.3213

# Trichromacy



## Original Color

37.5250, 0.5050, 0.3752

## Protanomaly

36.6999, 0.4362, 0.4079

## Deuteranomaly

37.0634, 0.4641, 0.4082

## Tritanomaly

37.3740, 0.4734, 0.3424

# Monochromacy



## Original Color

37.5250, 0.5050, 0.3752

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

34.7357, 0.3800, 0.3534

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.5250, 0.5050, 0.3752 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(255, 129, 79)` looks like.

```
.text, #text, p{  
    color:rgb(255, 129, 79)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 129, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 129, 79) }
```

## Border

The CSS property to change the border of an element to Yxy 37.5250, 0.5050, 0.3752 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 129, 79) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(255, 129, 79) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(255, 129, 79) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 129, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 129, 79);  
box-shadow:4px 4px 4px 4px rgb(255, 129,  
79) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 37.5250, 0.5050, 0.3752$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 129, 79) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
129, 79) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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